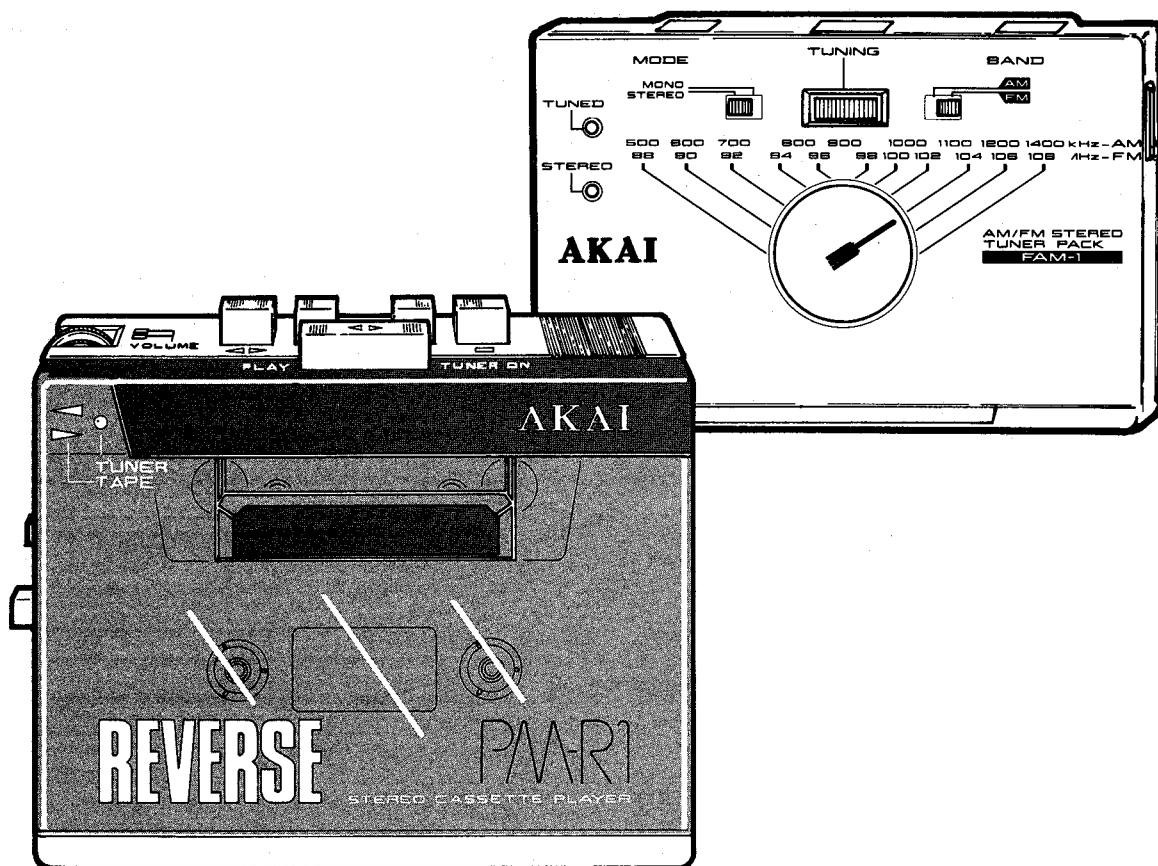


AKAI SERVICE MANUAL



STEREO CASSETTE PLAYER

MODEL PM-R1

AM/FM STEREO TUNER PACK

MODEL FAM-1

STEREO CASSETTE PLAYER

MODEL PM-R1

AM/FM STEREO TUNER PACK

MODEL FAM-1

| | | |
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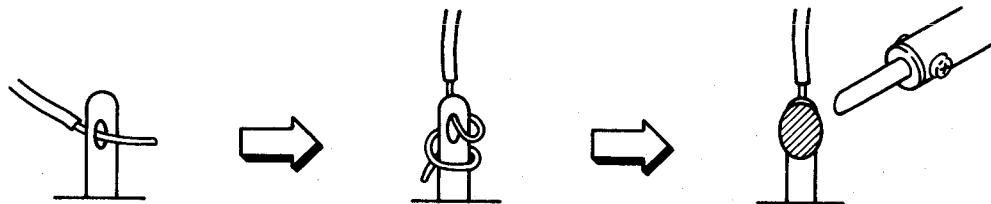
SAFETY INSTRUCTIONS

SAFETY CHECK AFTER SERVICING

Confirm the specified insulation resistance between power cord plug prongs and externally exposed parts of the set is greater than 10 Mohms, but for equipment with external antenna terminals (tuner, receiver, etc.) and is intended for [C] or [A], specified insulation resistance should be more than 2.2 Mohms (ground terminals, microphone jacks, headphone jacks, line-in-out jacks etc.)

PRECAUTIONS DURING SERVICING

1. Parts identified by the Δ symbol parts are critical for safety.
Replace only with parts number specified.
2. In addition to safety, other parts and assemblies are specified for conformance with such regulations as those applying to spurious radiation. These must also be replaced only with specified replacements.
Examples: RF converters, tuner units, antenna selector switches, RF cables, noise blocking capacitors, noise blocking filters, etc.
3. Use specified internal wiring. Note especially:
 - 1) Wires covered with PVC tubing
 - 2) Double insulated wires
 - 3) High voltage leads
4. Use specified insulating materials for hazardous live parts. Note especially:
 - 1) Insulation Tape
 - 2) PVC tubing
 - 3) Spacers (Insulating Barriers)
 - 4) Insulation sheets for transistors
 - 5) Plastic screws for fixing microswitch (especially in turntable)
5. When replacing AC primary side components (transformers, power cords, noise blocking capacitors, etc.), wrap ends of wires securely about the terminals before soldering.



6. Observe that wires do not contact heat producing parts (heatsinks, oxide metal film resistors, fusible resistors, etc.).
7. Check that replaced wires do not contact sharp edged or pointed parts.
8. Also check areas surrounding repaired locations.
9. Use care that foreign objects (screws, solder droplets, etc.) do not remain inside the set.

SECTION 1

SERVICE MANUAL

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For basic adjustments, measuring methods, and operating principles, refer to GENERAL TECHNICAL MANUAL.

I. SPECIFICATIONS

CASSETTE PLAYER (PM-R1) SECTION

| | |
|------------------------------|---|
| FREQUENCY RESPONSE | 40 to 12,500 Hz (NORMAL) 40 to 14,000 Hz (METAL) |
| POWER OUTPUT | 30mW per channel (at 32 ohms) |
| WOW AND FLUTTER | Less than 0.2% |
| S/N | Greater than 50dB (Stereo) |
| FF/REWIND TIME (C-60) | 150 seconds |
| OUTPUT IMPEDANCE | 32 ohms |
| POWER SOURCE | 2AA batteries or optional AC adaptor |
| BATTERY LIFE | Approx. 8 hours (Alkaline batteries) |
| DIMENSIONS | 111(H) × 83(W) × 33(D) mm [4.3(H) × 3.3(W) × 1.3(D) inches] |
| WEIGHT (including batteries) | 350 g (12.4 oz) |

AM/FM STEREO TUNER PACK (FAM-1) SECTION

[AM SECTION]

| | |
|--|------------------|
| TUNING RANGE | 530 to 1,610 kHz |
| USABLE SENSITIVITY (600/1,000/1,400 kHz) | 53 dB/m |
| IMAGE REJECTION (1,000 kHz ±2 IF) | 33 dB |
| IF REJECTION at 1,000 kHz | 30 dB |
| SELECTIVITY ±20 kHz | 35 dB |
| S/N at 1,000 kHz | 36 dB |
| DISTORTION (THD) at 1,000 kHz | 2.5% |
| FREQUENCY RESPONSE (1,000 kHz -6 dB) | 40 to 2,500 Hz |

[FM SECTION]

| | |
|--|---|
| TUNING RANGE | 76 to 108 MHz (JPN Model) 88 to 108 MHz (Other Models) |
| USABLE SENSITIVITY at 75 ohms, 88/98/106 MHz | 17 dBf |
| DISTORTION (THD) at 98 MHz (mono/stereo) | 0.5%/1% |
| S/N at 98 MHz (mono/stereo) | 55/45 dB |
| SEPARATION | 35 dB |
| IMAGE REJECTION (98 MHz +2 IF) | 25 dB |
| IF REJECTION at 98 MHz | 60 dB 75 dB (JPN) |
| AFC RANGE at 98 MHz | ±200 kHz |
| FREQUENCY RESPONSE (98 MHz +2/-4 dB) | 40 to 12,000 Hz |

* For improvement purposes, specifications and design are subject to change without notice.

II. CONTROLS

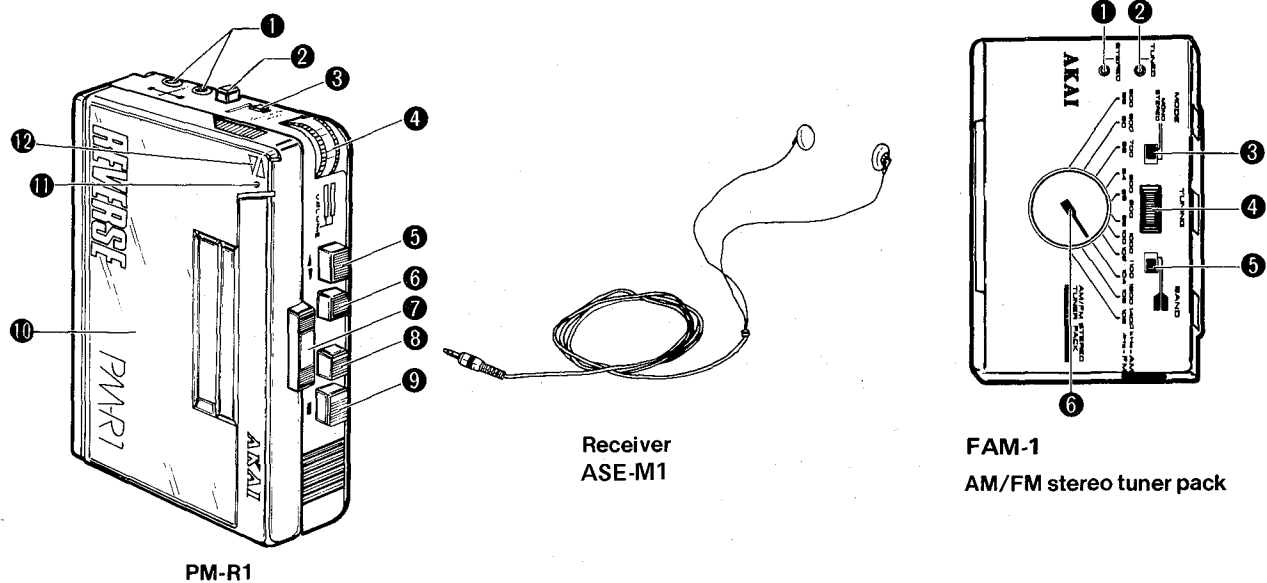


Fig. 2-1

PM-R1

- ① PHONES JACKS (A/B)
- ② MUTE SWITCH
- ③ TAPE SELECTOR (METAL/NORM)
- ④ VOLUME CONTROLS (LEFT/RIGHT)
- ⑤ DIRECTION (◀▶) BUTTON
- ⑥ FF (▶▶) BUTTON
- ⑦ PLAY/TUNER ON BUTTON
- ⑧ RWD (◀◀) BUTTON
- ⑨ STOP/TUNER OFF BUTTON
- ⑩ HOLDER
- ⑪ TUNER INDICATOR
- ⑫ TAPE INDICATORS

FAM-1

- ① STEREO INDICATOR
- ② TUNED INDICATOR
- ③ FM MODE SELECTOR (STEREO/MONO)
- ④ TUNING CONTROL
- ⑤ BAND SELECTOR (AM/FM)
- ⑥ FREQUENCY INDICATOR

III. HEAD AZIMUTH ADJUSTMENT

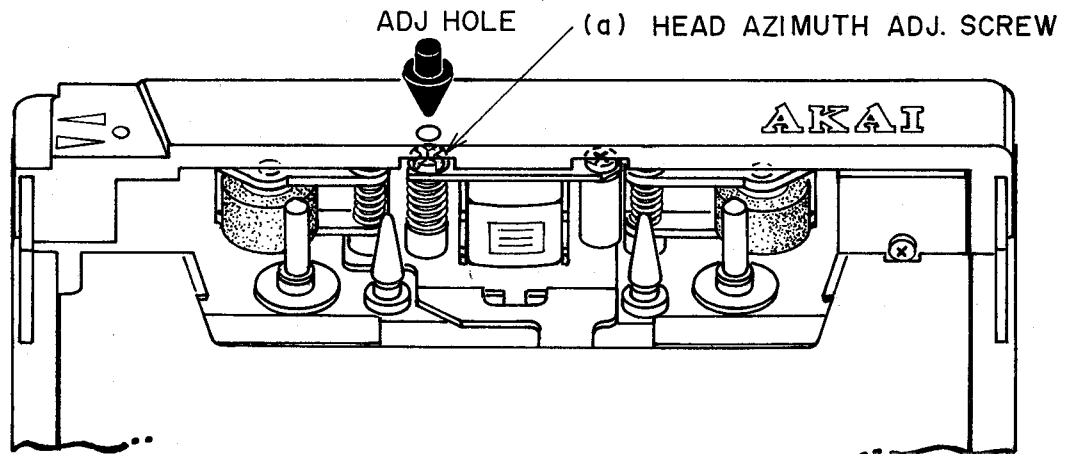


Fig. 3-1

- 1) Playback the azimuth adjustment tape (10 kHz AT-750778) in the FWD PLAY mode and adjust screw (a), until the output level of both channels reaches maximum (the AC voltmeter registers maximum).
- 2) Put in reverse mode and check that the output level is the same as in the forward mode. If different, adjust with screw (a), until the level is the same in both modes.
- 3) After adjustment, paint lock the screw (a).

IV. TAPE SPEED ADJUSTMENT

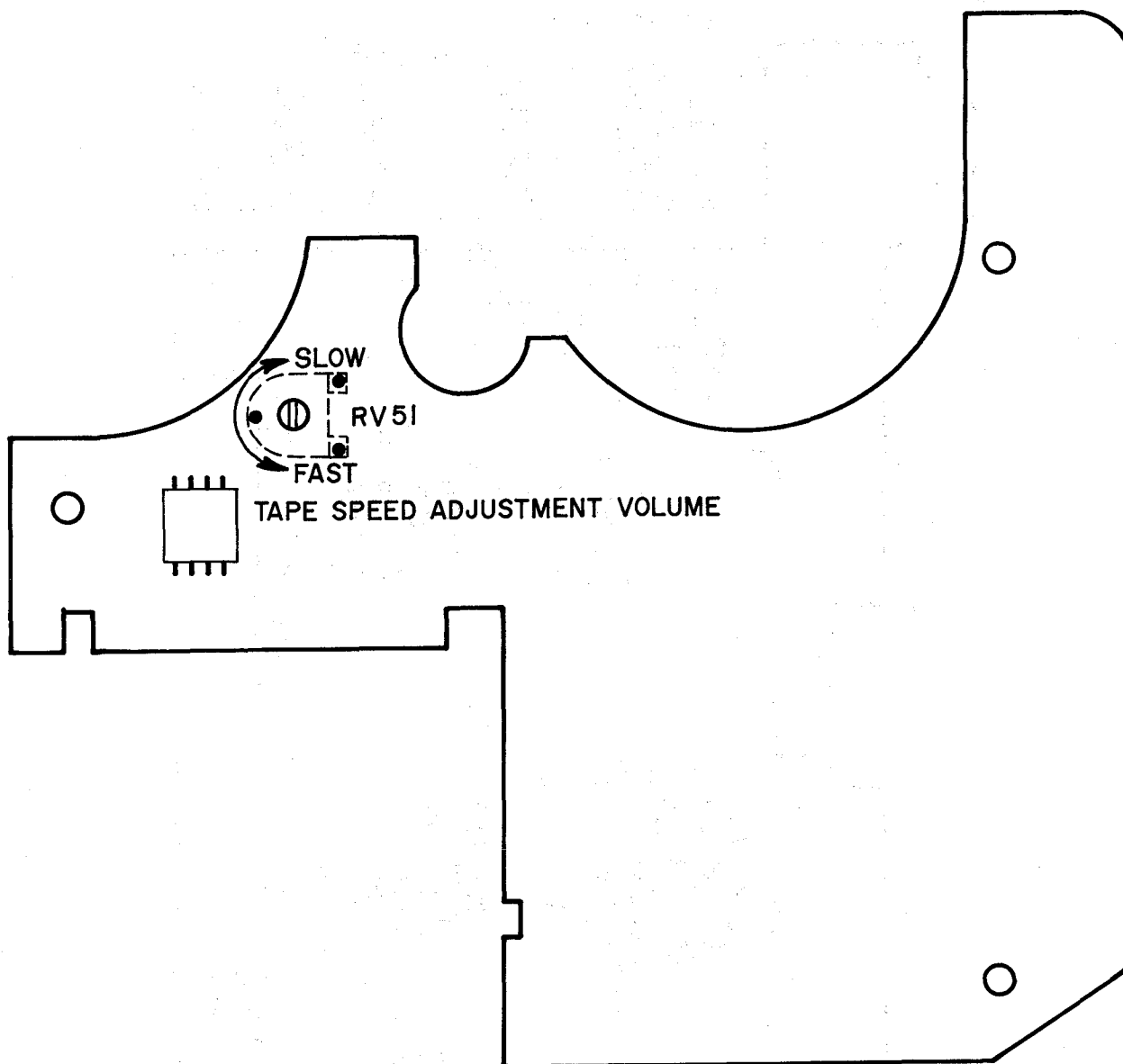


Fig. 4-1

Playback a 1,000 Hz pre-recorded test tape (AT-750774) or 3,150 Hz pre-recorded test tape (AT-751263) and adjust tape speed adjustment volume RV51 to obtain a tape speed of 1,000 Hz $\pm 35/-20$ Hz or 3,150 Hz $\pm 110/-63$ Hz.

V. TUNER (FAM-1) ADJUSTMENT

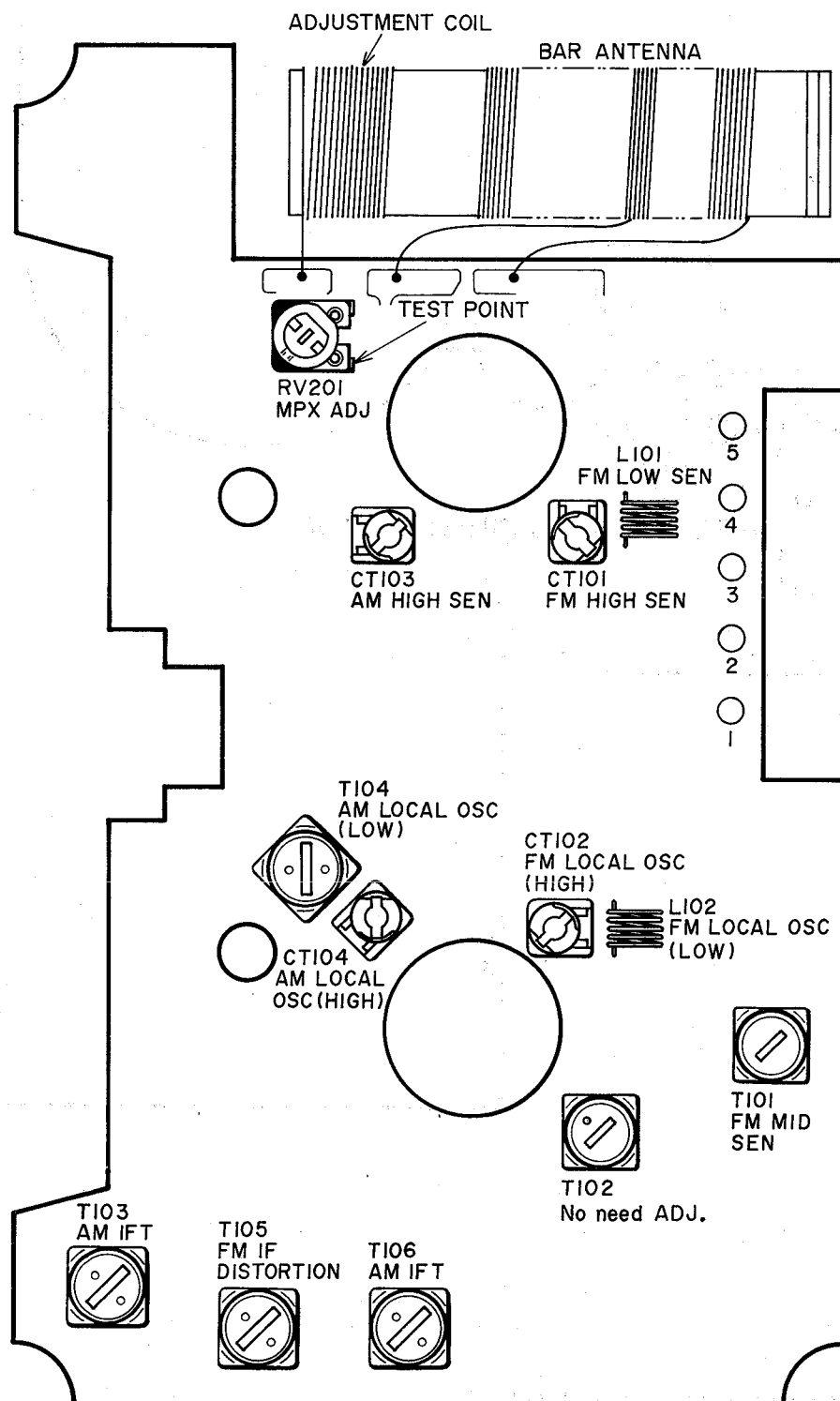


Fig. 5-1 FAM-1 Adjustment Points

5-1 AM SECTION ADJUSTMENT

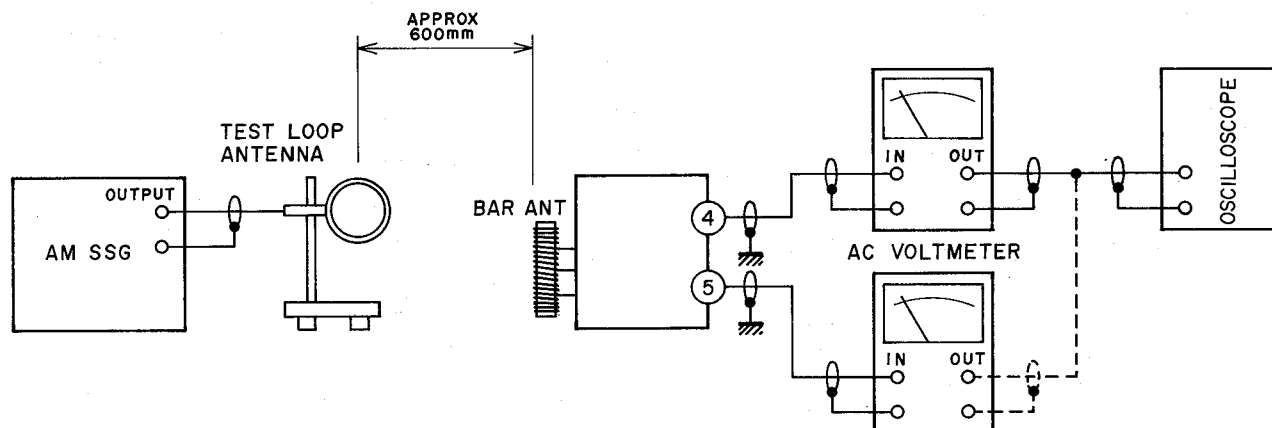


Fig. 5-2 Instrument Connection for AM Section Adjustment

| Step | Adjustment Item | Input Signal from S.S.G | Adjustment Point | Result | Remarks |
|-------------------|--|-------------------------|----------------------------------|----------------------|---|
| 1 | AM IF | 455 kHz 90 dB | T103 T106 | Maximum output level | <ul style="list-style-type: none"> BAND switch to AM Turn the Tuning Dial all the way to the left (Low end) |
| 2 | AM Local OSC (Low) | 510 kHz | T104 | Maximum output level | <ul style="list-style-type: none"> Turn the Tuning Dial all the way to the left (Low end) |
| 3 | AM Local OSC (High) | 1,650 kHz | CT104 | Maximum output level | <ul style="list-style-type: none"> Turn the Tuning Dial all the way to the right (High end) |
| 4 | For best Result, Repeat Step 2 and 3, two or three times | | | | |
| 5 (See NOTE 1) | Low Range Sensitivity | 600 kHz | Bar antenna coil (See NOTE 2) | Maximum output level | <ul style="list-style-type: none"> Tune to signal. |
| 6 | High Range Sensitivity | 1,400 kHz | CT103 | Maximum output level | <ul style="list-style-type: none"> Tune to signal. |
| 7 | For best Result, Repeat Step 5 and 6, two or three times | | | | |

- NOTE:** 1. Adjustment Step 5 is not Required except when a Bar Antenna is Replaced or an adjustable coil is miss adjusted.
2. Adjust space between small coil and large coil, by moving small coil.
3. Set the internal modulation signal generator to 30%, 400 Hz and 50 dB of each unless specified.

5-2 FM SECTION ADJUSTMENT

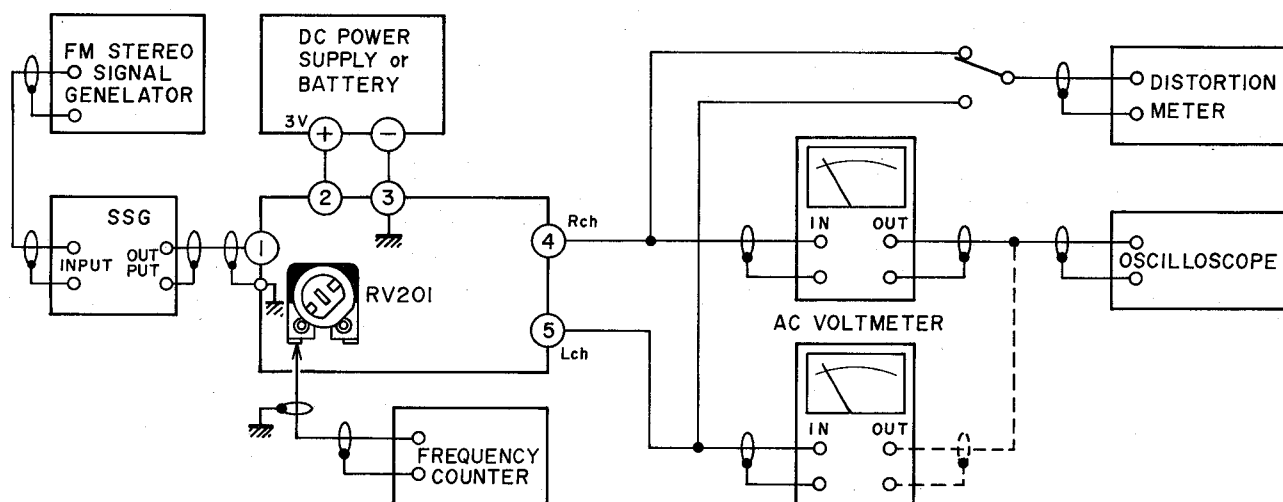


Fig. 5-3 Instruments Connection for FM Section Adjustment

| Step | Adjustment Item | Input Signal from S.S.G | Adjustment Point | Result | Remarks |
|------|---|-------------------------|------------------|--|---|
| 1 | FM IF | 98.0 (90.0) MHz | T105 | Maximum output level Distortion Factor = Less than 0.6% | <ul style="list-style-type: none"> • BAND switch to FM. • MODE switch to MONO. • Tune to signal. |
| 2 | FM Local OSC (Low) | 87.6 (75.5) MHz | L102 | Maximum output level | <ul style="list-style-type: none"> • MODE switch to MONO. • Turn the Tuning Dial, all the way to the left (Low end) |
| 3 | FM Local OSC (High) | 108.2 (108.2) MHz | CT102 | Maximum output level | <ul style="list-style-type: none"> • MODE switch to MONO. • Turn the Tuning Dial, all the way to the right (High end) |
| 4 | For best Result, Repeat Step 2 and 3, two or three times | | | | |
| 5 | Low Range Sensitivity | 90.0 (78.0) MHz | L101 | Maximum output level | <ul style="list-style-type: none"> • MODE switch to MONO. • Tune to signal. |
| 6 | Mid Range Sensitivity | 98.0 (90) MHz | T101 | Maximum output level | <ul style="list-style-type: none"> • MODE switch to MONO. • Tune to signal. |
| 7 | High Range Sensitivity | 106.0 (106.0) MHz | CT101 | Maximum output level | <ul style="list-style-type: none"> • MODE switch to MONO. • Tune to signal. |
| 8 | For best Result, Repeat Step 5, 6 and 7, two or three times | | | | |
| 9 | MPX Free Running Frequency | 98.0 (90.0) MHz | RV201 | 76 kHz \pm 400 Hz | <ul style="list-style-type: none"> • MODE switch to STEREO. • SSG to STEREO. • Connect a Frequency counter between TP (Refer to Fig. 5-3) and GND. |

- NOTE:**
1. The Frequencies Indicated in () is for **J** MODEL.
 2. Adjustments in step 2 and step 5 are Not Required except when a parts is Replaced or an Adjustable Coil (L101, L102) is miss-adjusted.
 3. Set the internal modulation signal generator to 75 kHz Dev, 1 kHz and 65 dB of each unless specified.

VI. CLASSIFICATION OF VARIOUS P.C BOARDS

6-1 AMP P.C BOARD PSAB013A0Y, LED P.C BOARD PSLD167A0Y, TERMINAL (A) P.C BOARD PSZZ158E0W and FLEXIBLE P.C BOARD

The Parts in indicates ship parts.

 → Jumper Resistor, 000 on PCB.

562 → Resistor, 562 means $56 \times 10^2 (5.6K) ohms$.

C → Capacitor, see * Chip Capacitor.

Q → Transistor, see * Chip Transistor.

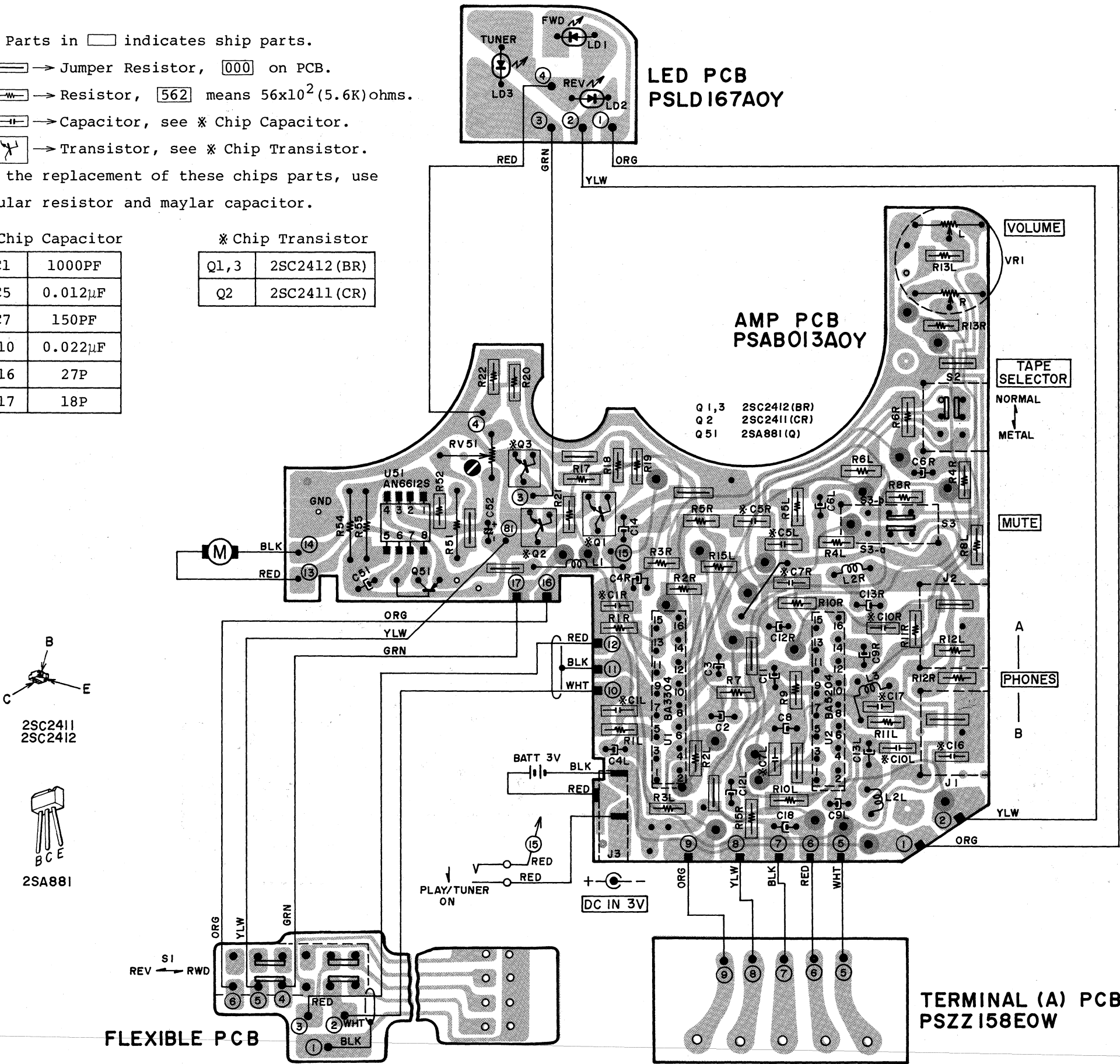
For the replacement of these chips parts, use regular resistor and maylar capacitor.

* Chip Capacitor

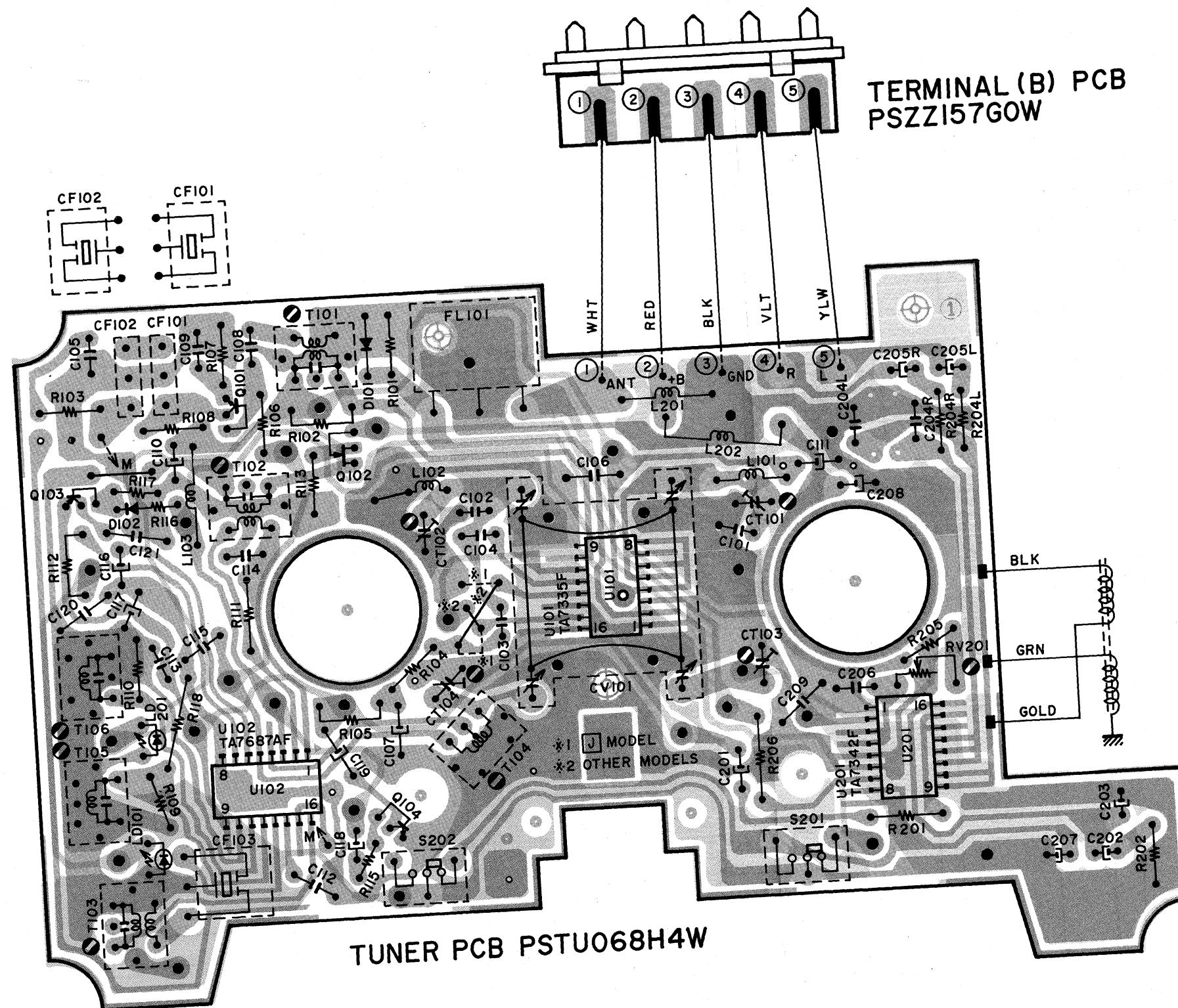
| | |
|-----|---------|
| C1 | 1000PF |
| C5 | 0.012μF |
| C7 | 150PF |
| C10 | 0.022μF |
| C16 | 27P |
| C17 | 18P |

* Chip Transistor

| | |
|------|--------------|
| Q1,3 | 2SC2412 (BR) |
| Q2 | 2SC2411 (CR) |



6-2 TUNER P.C BOARD PSTU068H4W and TERMINAL (B) P.C BOARD PSZZ157G0W



Q

SECTION 2

PARTS LIST

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| 3. FINAL ASSEMBLY BLOCK | 18 |
| 4. MODEL FAM-1 FINAL ASSEMBLY BLOCK | 20 |
| 5. MODEL ASE-M1 ASSEMBLY BLOCK | 20 |
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Resistor and Capacitor which is not listed in this parts list, please refer to COMMON LIST FOR SERVICE PARTS.

ATTENTION

1. When placing an order for parts, be sure to list the parts no., model no., and description. There are instances in which if any of this information is omitted, parts cannot be shipped or the wrong parts will be delivered.
2. Please be careful not to make a mistake in the parts no. If the parts no. is in error, a part different from the one ordered may be delivered.
3. Because parts number and parts unit supply in the Preliminary Parts List may be partially changed, please use this parts list for all future reference.

HOW TO USE THIS PARTS LIST

1. This Parts List shows the parts that are considered necessary for repairs. Other parts, such as resistors and capacitors, are shown in the "Common List for Service Parts". Select and order such parts from the "Common List for Service Parts".
2. The Recommended Spare Parts shows those parts in the Parts List which are considered particularly important for service.
3. Parts not shown in the Parts List and "Common List for Service Parts" will not be supplied in principle.
4. How to read list
 - a) Mechanism Block

2. HEAD BASE BLOCK

| REF. NO. | PARTS NO. | DESCRIPTION |
|----------|---------------|-------------------------|
| 2-1x | BH-T2023A320A | HEAD BASE BLOCK GX-F66R |
| 2-2 | HP-H2206A010A | HEAD R/P PR4-8FU C |
| 2-3 | ZS-477876 | PAN20x03STL CMT |
| 2-4 | ZS-536488 | BID20x08STL CMT |
| 2-5 | ZG-402895 | CS ANGLE ADJUST SPRING |

SP (Service Parts) Classification

A small "x" indicates the inability to show that particular part in the Photo or Illustration.

This number corresponds with the individual parts index number in that figure

This number corresponds with the Figure Number

6. SYS. CON. P.C BOARD BLOCK

| REF. NO. | PARTS NO. | DESCRIPTION |
|-----------|---------------|---------------------------------|
| 6-1 | BA-T2034A070A | PC SYS CON BLK GX-F44R |
| 6-IC1 | EI-324536 | IC HD14049BP |
| 6-IC2 | EI-336801 | IC MB8841-564M |
| 6-IC3 | EI-331661 | IC SN7405N |
| 6-IC4 | EI-336725 | IC M54527P |
| 6-TR1to4 | ET-200985 | TR 2SC2603 F,G |
| 6-TR5to28 | ET-554657 | TR 2SA733A P,Q |
| 6-D1 | ED-318292 | D SILICON H 1S2473T-77 T26 |
| 6-D2to4 | ED-308952 | D GERMA V 1K34A-LR F07 |
| 6-D5to10 | ED-318292 | D SILICON H 1S2473T-77 T26 |
| 6-X1 | EI-318384 | OSC X'TAL NC-18C 3.579545MHZ |

SP (Service Parts) Classification

This reference numbers corresponds with symbol numbers of Schematic Diagrams.

5. Both the kind of part and installation position can be determined by the Parts Number. To determine where a parts number is listed, utilize Parts Index at end of Parts List. It is necessary first of all to find the Parts Number. This can be accomplished by using the Reference Number listed at right of parts number in the Parts Index.

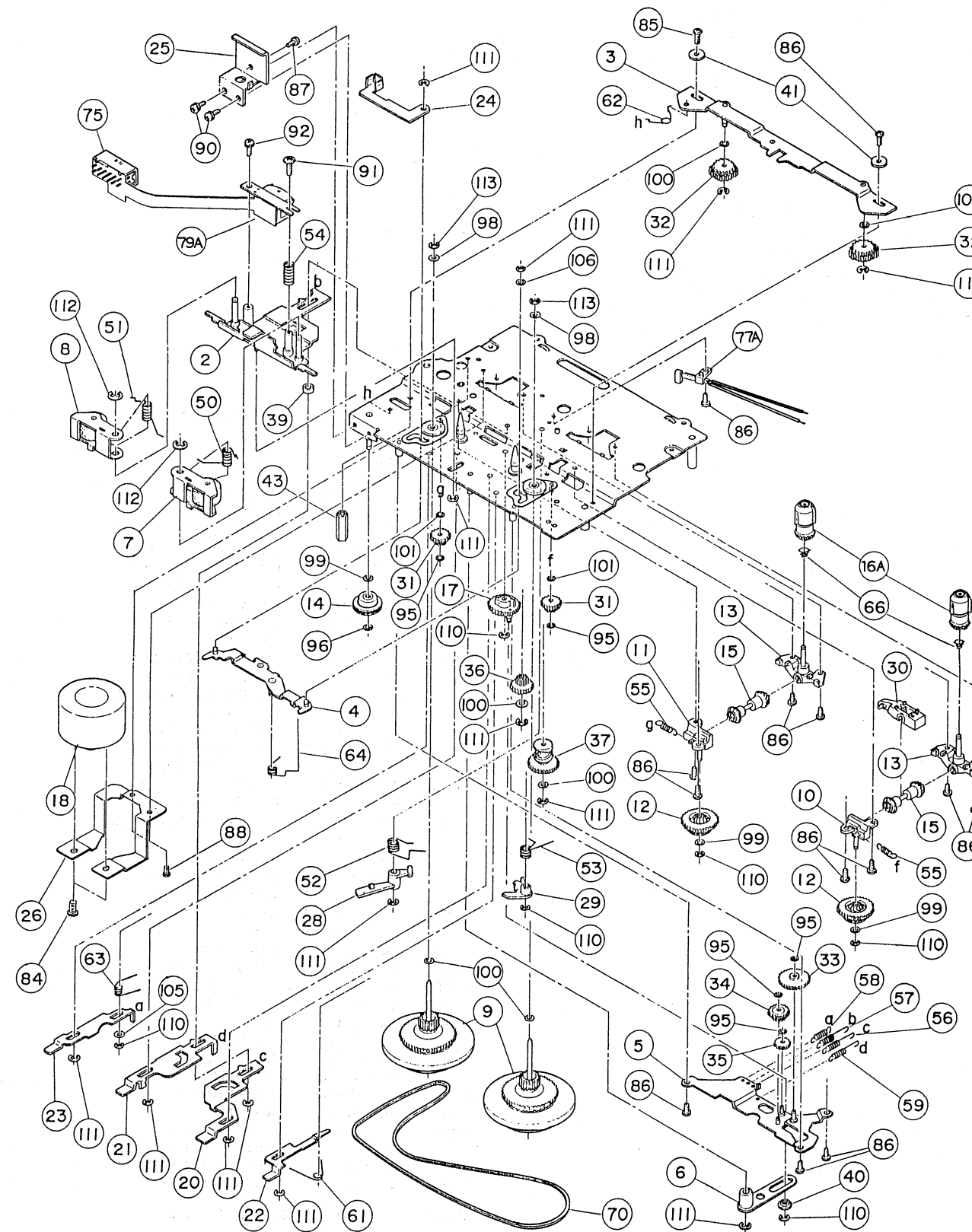
WARNING

⚠ INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS.

AVERTISSEMENT

⚠ IL INDIQUE LES COMPOSANTS CRITIQUES DE SURETE. POUR MAINTENIR LE DEGRE DE SECURITE DE L'APPAREIL NE REMPLACER LES COMPOSANTS DONT LE FONCTIONNEMENT EST CRITIQUE POUR LA SECURITE QUE PAR DES PIECES RECOMMANDEES PAR LE FABRICANT.

MECHA BLOCK



1. MECHA BLOCK

| REF. NO. | PARTS NO. | DESCRIPTION |
|----------|-----------|--------------------------|
| 1-1 | BB-749505 | MECHA BLK PM-R1 |
| 1-2 | MZ-749356 | HEAD SLIDE SHASSIS ASSY |
| 1-7 | MP-749357 | ROLLER PINCH (F) |
| 1-8 | MP-749358 | ROLLER PINCH (R) |
| 1-9 | MI-749428 | FLYWHEEL ASSY |
| 1-12 | MZ-749359 | FRICTION GEAR ASSY |
| 1-13 | MV-749355 | SPINDLE BEARING ASSY |
| 1-15 | MZ-749360 | INTERACT GEAR ASSY |
| 1-16 | MZ-749361 | REEL SPINDLE ASSY |
| 1-17 | MZ-749362 | SELECT GEAR ASSY |
| 1-18 | BM-749431 | MOTOR PM-R1 |
| 1-24 | ML-749500 | LEVER SW |
| 1-31 | MZ-749331 | GEAR TU |
| 1-32 | MZ-749332 | GEAR FF |
| 1-33 | MZ-749333 | GEAR IDLER (A) |
| 1-34 | MZ-749334 | GEAR IDLER (B) |
| 1-35 | MZ-749335 | GEAR IDLER (C) |
| 1-36 | MZ-749336 | GEAR DRIVE |
| 1-37 | MZ-749337 | GEAR CAM |
| 1-40 | MR-749338 | ROLLER SELECT |
| 1-50 | ZG-749339 | SP PINCH ROLLER ARM (F) |
| 1-51 | ZG-749340 | SP PINCH ROLLER ARM (R) |
| 1-52 | ZG-749341 | SP GEAR LOCK |
| 1-53 | ZG-749342 | SP RATCHET |
| 1-54 | ZG-749343 | SP AZIMUTH |
| 1-55 | ZG-749344 | SP INTERACT LEVER |
| 1-56 | ZG-749345 | SP FF LEVER |
| 1-57 | ZG-749346 | SP HEAD SLIDE |
| 1-58 | ZG-749347 | SP STOP LEVER |
| 1-59 | ZG-749348 | SP RWD LEVER |
| 1-61 | ZG-749349 | SP TORSION PROGRAM LEVER |
| 1-62 | ZG-749350 | SP TORSION F/R LEVER |
| 1-63 | ZG-749351 | SP LATCH LEVER |
| 1-64 | ZG-749352 | SP DASH |
| 1-66 | ZG-749353 | SP BACK TENSION |
| 1-70 | MB-749354 | BELT |
| 1-75 | ES-749445 | SW HEAD SLIDE (S1) |
| 1-77 | ES-749447 | SW LEAF (S4) |
| 1-79 | HP-749446 | HEAD P-5144-CM |
| 1-84 | ZS-749429 | PAN16x02STL NI3 |
| 1-85 | ZS-343127 | PAN17x05STL BNI |
| 1-86 | ZS-749363 | PAN17x02STL BNI |
| 1-87 | ZS-467346 | BID20x03STL BNI |
| 1-88 | ZS-749340 | PAN17x018STL BNI |
| 1-90 | ZS-355544 | BID20x04STL NI3 |
| 1-91 | ZS-749501 | XST BID20x05STL NI3 |
| 1-92 | ZS-355544 | BID20x04STL NI3 |
| 1-95 | ZW-749369 | PW08x040x025PSL |
| 1-96 | ZW-749367 | PW12x040x025PSL |
| 1-97 | ZW-749368 | PW16x040x025PSL |
| 1-98 | ZW-305546 | PW21x040x025PSL |
| 1-99 | ZW-381644 | PW21x040x013PSL |
| 1-100 | ZW-305546 | PW21x040x025PSL |
| 1-101 | ZW-749367 | PW12x040x025PSL |
| 1-105 | ZW-749365 | PW15x040x030PBR |
| 1-106 | ZW-749366 | PW21x040x030PBR |
| 1-110 | MT-342044 | REEL CLAMP PIN 12 (3R) |
| 1-111 | ZW-356657 | RING E 150SUP CMT |
| 1-112 | ZW-329299 | RING E 200SUP CMT |
| 1-113 | ZW-749364 | E RING 160SUS |

- NOTE:** 1. Parts will not be supplied if they are not listed in the Parts list, even if they appear on the assembling illustrations with reference No.
2. When replacing the parts Ref. No. 1-24 or 1-75, replaced 1-24 together with 1-75 if the serial No. of the unit is before 80301-10000.

2. AMP P.C BOARD BLOCK

| REF. NO. | Parts No. | DESCRIPTION |
|----------|-----------|----------------------|
| 2-1 | BA-749506 | PC AMP BLK PM-R1 |
| 2-U1 | EI-749433 | IC BA3304 |
| 2-U2 | EI-749434 | IC BA5204 |
| 2-U51 | EI-749432 | IC AN6612S |
| 2-Q1 | ET-749437 | TR 2SC2412 BR |
| 2-Q2 | ET-749436 | TR 2SC2411 CR |
| 2-Q3 | ET-749437 | TR 2SC2412 BR |
| 2-Q51 | ET-749435 | TR 2SA881 P,Q |
| 2-VR1 | EV-749439 | VR ROTARY |
| 2-RV51 | EV-749438 | R S-FIX H V6EK-PV2 B |
| 2-S2 | ES-749441 | SW SLIDE |
| 2-S3 | ES-749440 | SW PUSH |
| 2-J1,2 | EJ-709029 | HEADPHONE (A) J |
| 2-J3 | EJ-749442 | DC JACK HEC0737 |
| 2-LD1,2 | ED-749444 | D LED PG5552T RED |
| 2-LD3 | ED-749443 | D LED LN222RP RED |

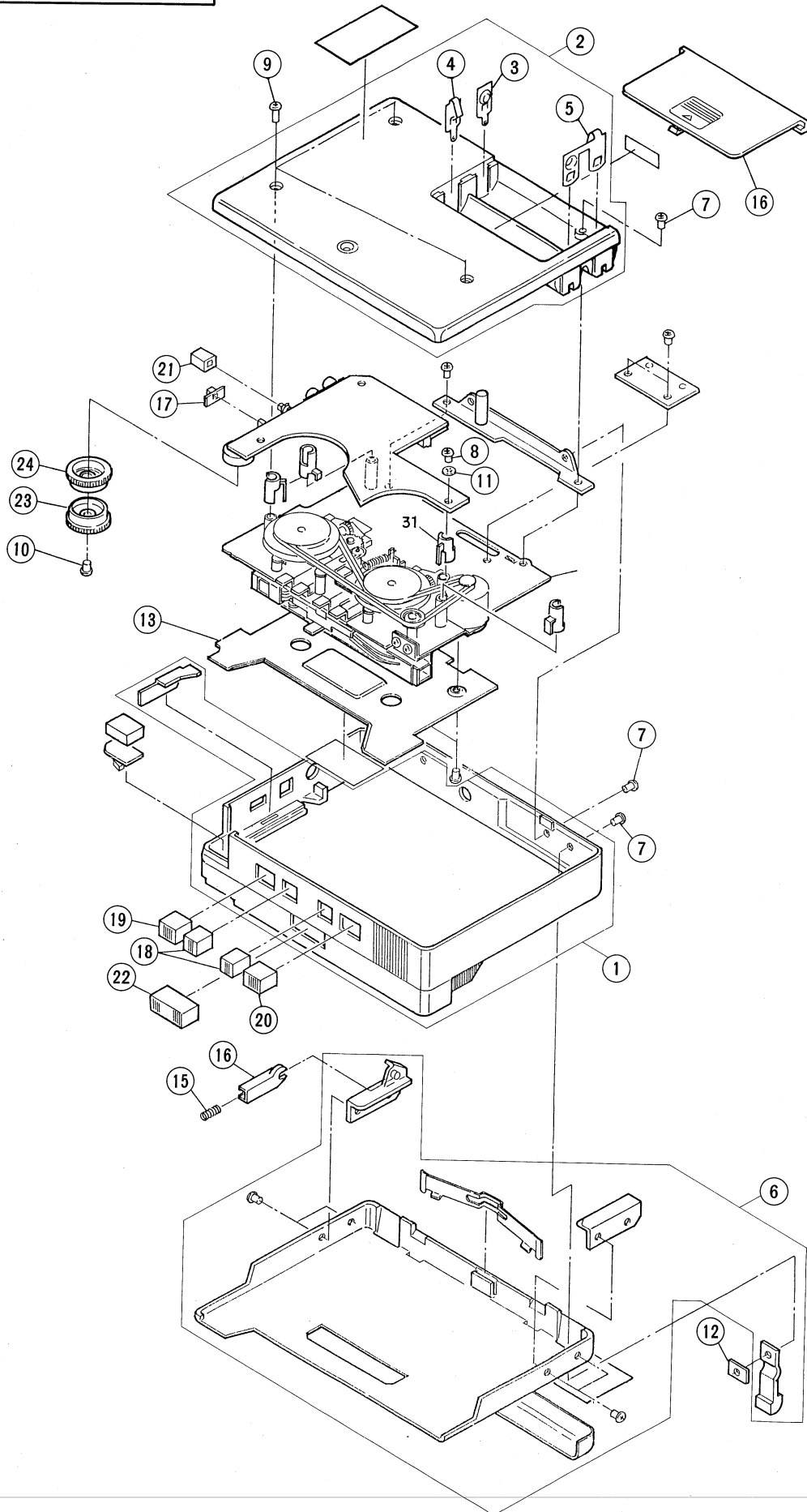
3. FINAL ASSEMBLY BLOCK

| REF. NO. | PARTS NO. | DESCRIPTION |
|----------|-----------|----------------------|
| 3-1G | BC-749460 | FRAME BLK G |
| 3-1S | BC-749461 | FRAME BLK S |
| 3-1R | BC-749462 | FRAME BLK R |
| 3-2G | BC-749465 | BOTTOM CASE BLK G |
| 3-2S | BC-749466 | BOTTOM CASE BLK S |
| 3-2R | BC-749467 | BOTTOM CASE BLK R |
| 3-3 | EZ-749305 | TERMINAL (+) |
| 3-4 | EZ-749308 | TERMINAL (-) |
| 3-5 | EZ-749309 | TERMINAL (+ -) |
| 3-6G | BD-749470 | LID CASSETTE BLK G |
| 3-6S | BD-749471 | LID CASSETTE BLK S |
| 3-6R | BD-749472 | LID CASSETTE BLK R |
| 3-7 | ZS-394525 | BID20x03STL NI3 |
| 3-8 | ZS-355601 | BID20x05STL NI3 |
| 3-9 | ZS-484918 | PAN20x08STL NI3 |
| 3-10 | ZS-749301 | BID10x03STL BNI |
| 3-11 | ZW-463408 | TW50 |
| 3-12 | ZW-749325 | PLATE NUT |
| 3-13 | SP-749307 | LID DECORATION PLATE |
| 3-14 | ZG-749310 | SP LID |
| 3-15 | ZG-749311 | SP GUIDE |
| 3-16G | SP-749299 | LID BATTERY G |
| 3-16S | SP-749312 | LID BATTERY S |
| 3-16R | SP-749313 | LID BATTERY R |
| 3-17 | SK-749316 | KNOB TONE |
| 3-17S | SK-749300 | KNOB TONE S |
| 3-18 | SK-749317 | KNOB FF/REW |
| 3-18S | SK-749302 | KNOB FF/REW S |
| 3-19 | SK-749318 | KNOB PROGRAM |
| 3-19S | SK-749303 | KNOB PROGRAM S |
| 3-20 | SK-749319 | KNOB STOP |
| 3-20S | SK-749304 | KNOB STOP S |
| 3-21 | SK-749320 | KNOB MUTE |
| 3-21S | SK-749314 | KNOB MUTE S |
| 3-22 | SK-749321 | KNOB PLAY |
| 3-22S | SK-749315 | KNOB PLAY S |
| 3-23 | SK-749322 | KNOB VR (L) |
| 3-24 | SK-749323 | KNOB VR (R) |
| 3-24S | SK-749324 | KNOB VR (R) S |

SYMBOL FOR COLOR VARIATION

- G – GOLD
- S – SILVER
- R – RED

FINAL ASSEMBLY BLOCK



4. MODEL FAM-1 FINAL ASSEMBLY BLOCK

| REF. NO. | PARTS NO. | DESCRIPTION |
|----------|-----------|------------------------------|
| 4-1x | EJ-749477 | CONTACT BLK (J) |
| 4-2x | ZS-749478 | T1PAN20x06STL BNI |
| 4-3x | ZS-749479 | T1PAN20x04STL CMT |
| 4-4x | EE-749480 | BAR ANTENNA |
| 4-5x | MZ-749481 | GEAR A |
| 4-6x | MZ-749482 | GEAR TABLE |
| 4-7x | BA-749483 | PC TUNER BLK (X2) (EXCEPT J) |
| 4-7Jx | BA-749476 | PC TUNER BLK (X1) (J) |

TUNER P.C BOARD

| | | |
|--------------|-----------|------------------------------------|
| 4-U101 | EI-749494 | IC TA7335F |
| 4-U102 | EI-749496 | IC TA7687F |
| 4-U201 | EI-749495 | IC TA7342F |
| 4-Q101 | ET-749497 | TR 2SC2458 Y,OR,GR |
| 4-Q102 | ET-749498 | TR 2SK161 GR |
| 4-Q103 | ET-706062 | TR 2SA1048 O,RY |
| 4-Q104 | ET-749497 | TR 2SC2458 Y,OR,GR |
| 4-D101,102 | ED-706055 | D SILICON MA150 |
| 4-LD101 | ED-749493 | D LED TLG124 |
| 4-LD201 | ED-315498 | D LED TLR124 RED |
| 4-RV201 | EV-749499 | R S-FIX H EVN-A6T 103 |
| 4-S201,202 | ES-706071 | SW SLIDE |
| 4-CT101 | EC-749485 | C S-FIX |
| 4-CT102 | EC-749484 | C S-FIX 6PF-MAX BLUE (EXCEPT J) |
| 4-CT102J | EC-749485 | C S-FIX (J) |
| 4-CT103 | EC-749484 | C S-FIX 6PF-MAX BLUE |
| 4-CT104 | EC-749486 | C S-FIX |
| 4-VC101 | EE-749488 | VC AIR (X2) (EXCEPT J) |
| 4-VC101J | EE-749487 | VC AIR (X1) (J) |
| 4-CF101,102 | ER-706053 | FILTER CE |
| 4-CF103 | ER-749489 | FILTER CE |
| 4-FL101,101J | ER-749492 | FILTER B.P.F (X2) (EXCEPT J) |

5. MODEL ASE-M1 ASSEMBLY BLOCK

| REF. NO. | PARTS NO. | DESCRIPTION |
|----------|-----------|------------------------|
| 5-1 | AX-780134 | EAR PAD (BROWN) ASE-M1 |
| 5-2 | AX-780135 | EAR PAD (RED) ASE-M1 |

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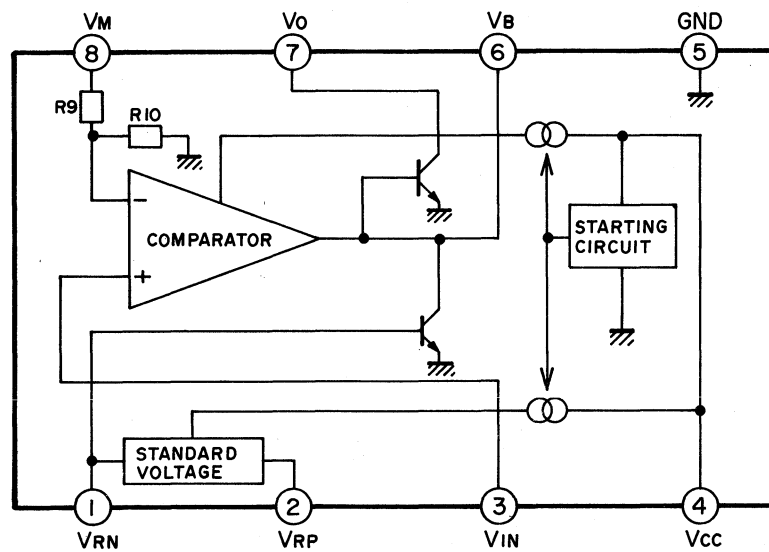
| PARTS NO. | REF. NO. | PARTS NO. | REF. NO. | PARTS NO. | REF. NO. | PARTS NO. | REF. NO. |
|-----------|----------|-----------|----------|-----------|----------|-----------|----------|
| AX-780134 | 5-1 | MZ-749336 | 1-36 | | | | |
| AX-780135 | 5-2 | MZ-749337 | 1-37 | | | | |
| BA-749476 | 4-7JX | MZ-749356 | 1-2 | | | | |
| BA-749483 | 4-7X | MZ-749359 | 1-12 | | | | |
| BA-749506 | 2-1 | MZ-749360 | 1-15 | | | | |
| BB-749505 | 1-1 | MZ-749361 | 1-16 | | | | |
| BC-749461 | 3-1S | MZ-749362 | 1-17 | | | | |
| BC-749460 | 3-1G | MZ-749481 | 4-5x | | | | |
| BC-749462 | 3-1R | MZ-749482 | 4-6x | | | | |
| BC-749465 | 3-2G | SK-749300 | 3-17S | | | | |
| BC-749466 | 3-2S | SK-749302 | 3-18S | | | | |
| BC-749467 | 3-2R | SK-749303 | 3-19S | | | | |
| BD-749470 | 3-6G | SK-749304 | 3-20S | | | | |
| BD-749471 | 3-6S | SK-749314 | 3-21S | | | | |
| BD-749472 | 3-6R | SK-749315 | 3-22S | | | | |
| BM-749431 | 1-18 | SK-749316 | 3-17 | | | | |
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| ED-749444 | 2-LD2 | SP-749312 | 3-16S | | | | |
| ED-749493 | 4-LD101 | SP-749313 | 3-16R | | | | |
| EE-749480 | 4-4X | ZG-749310 | 3-14 | | | | |
| EE-749487 | 4-VC101J | ZG-749311 | 3-15 | | | | |
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| EI-749434 | 2-U2 | ZG-749342 | 1-53 | | | | |
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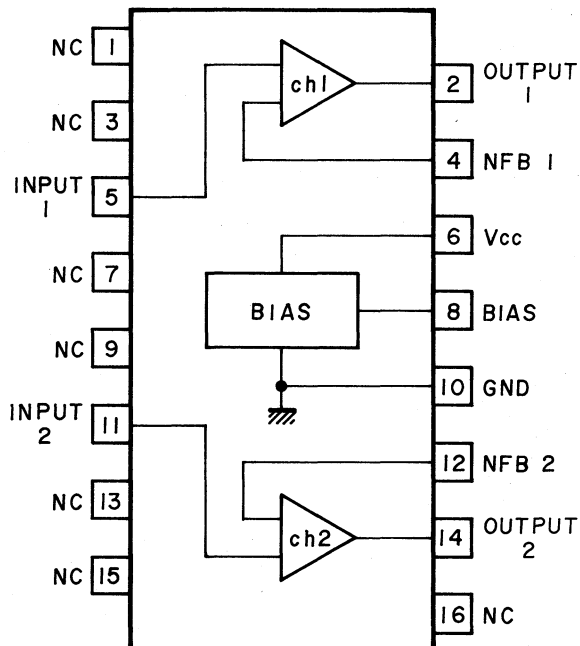
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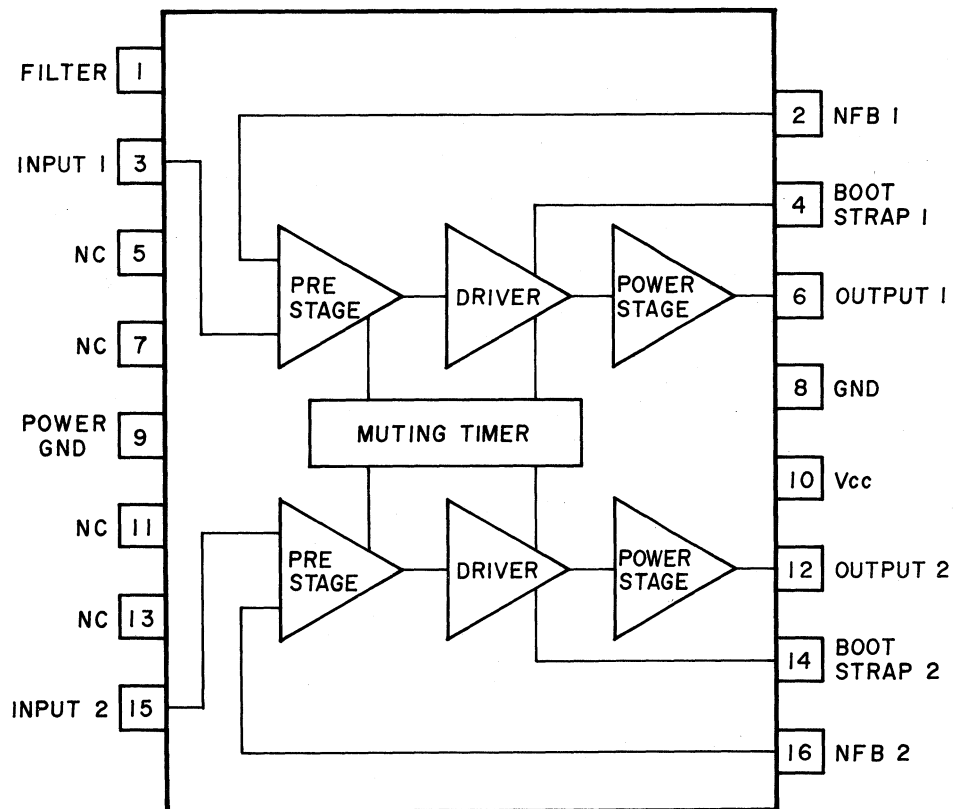
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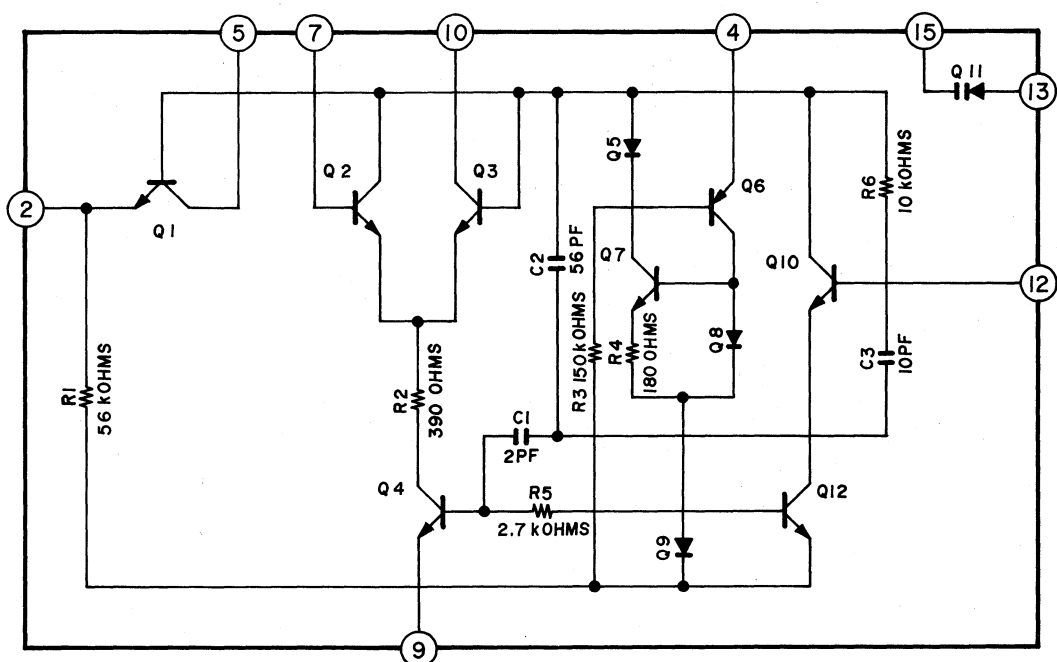
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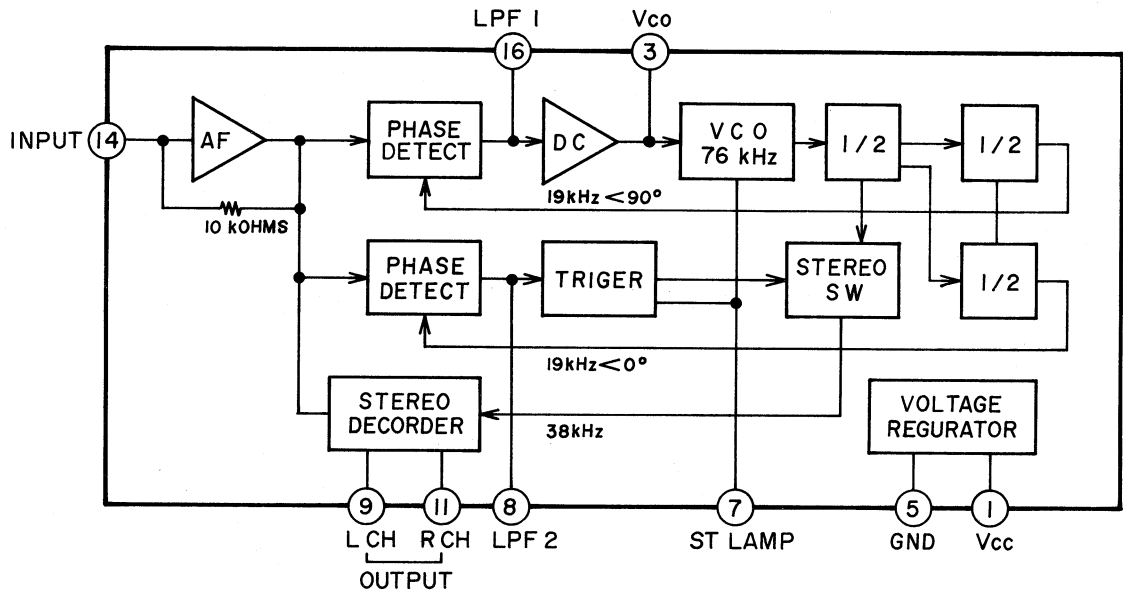
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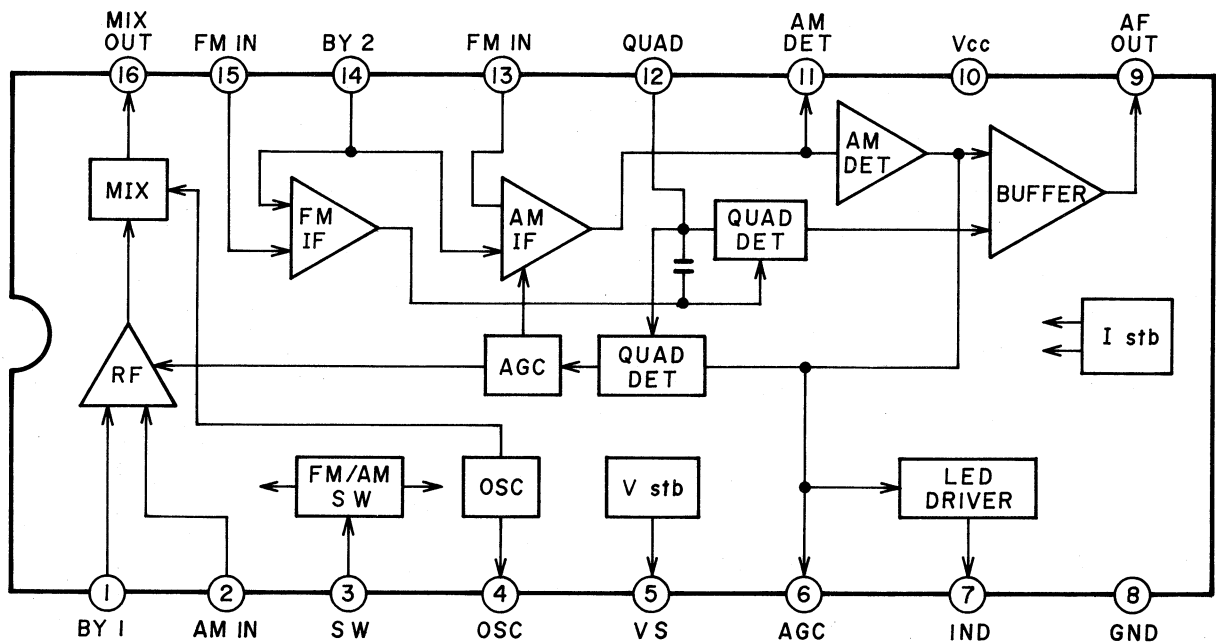
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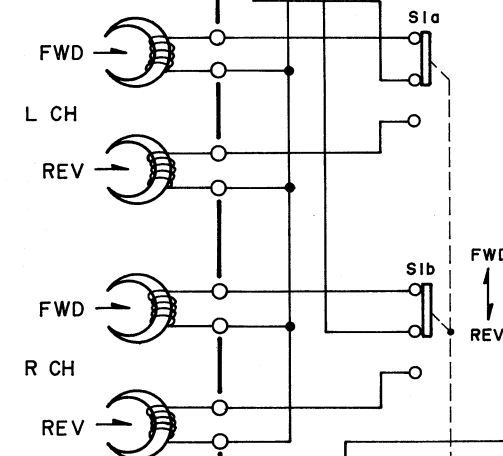
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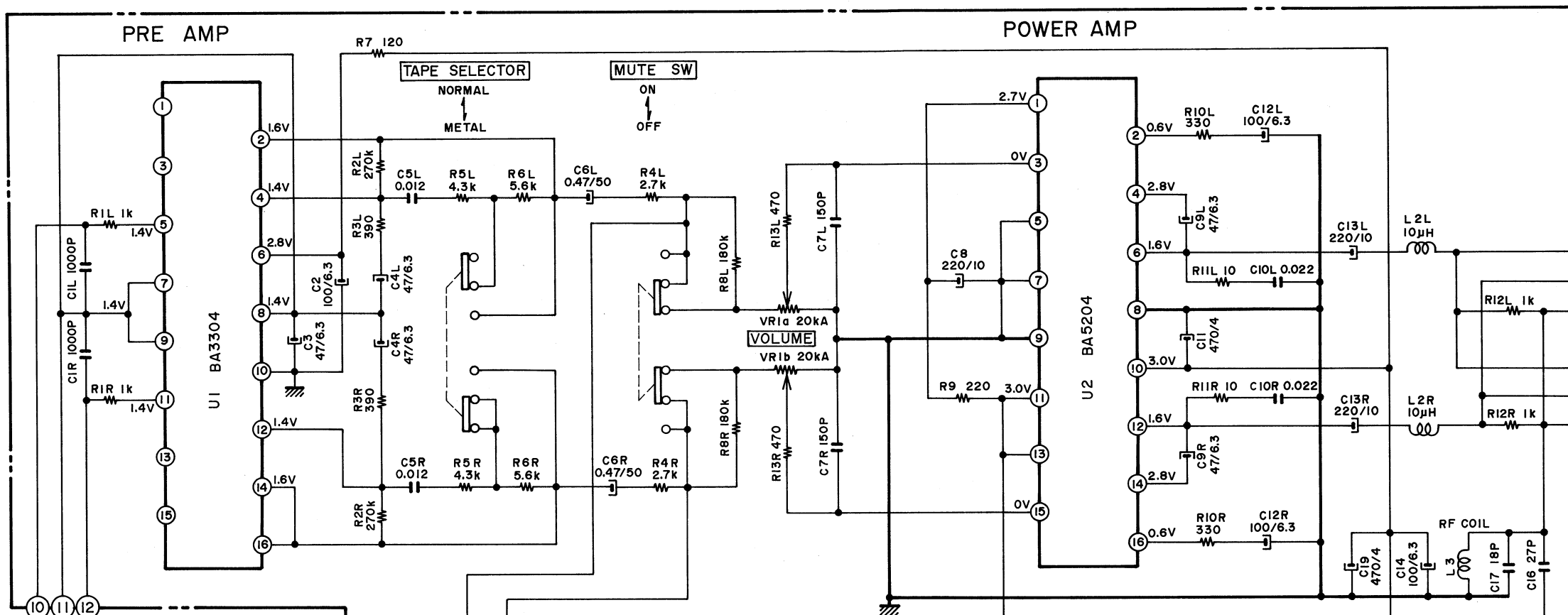
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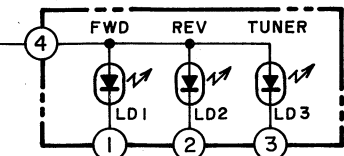


FLEXIBLE PCB



TERMINAL (A) PCB PSZZI58E0W

LED PCB PSLDI67A0Y



AMP PCB P̄SAB013A0Y

NOTE
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS 1/8W(J)
ALL CAPACITORS IN μ F 50 WV(J)

(CASSETTE PLAYER)
PM-R1 AMP
SCHEMATIC DIAGRAM
No. 830401A

FAM-I

